Strategic Plan for

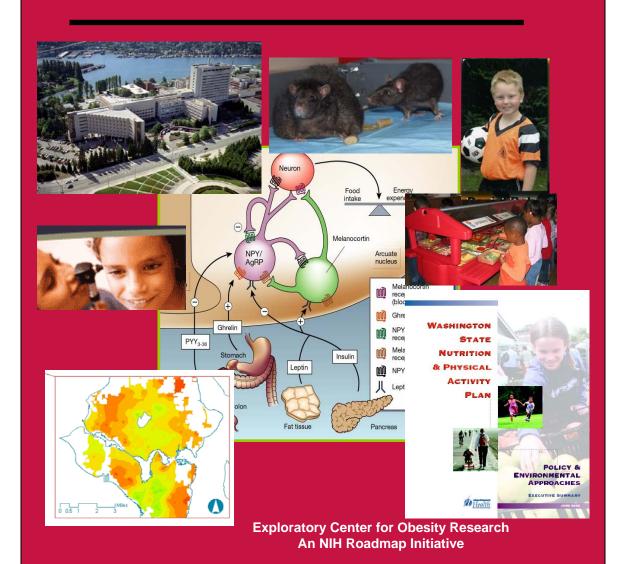


Adam Drewnowski, PhD

School of Public Health and Community Medicine
University of Washington

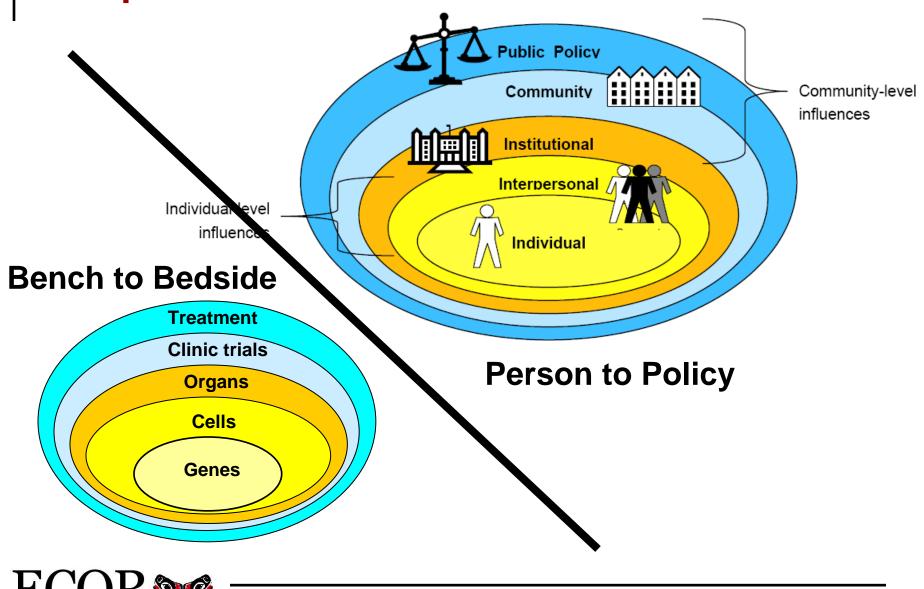
NIH Interdisciplinary Research Centers Workshop Bethesda, February 9, 2006

Strategic Plan for UNIVERSITY of WASHINGTON OBESITY RESEARCH



Discipline and Institutional Barriers

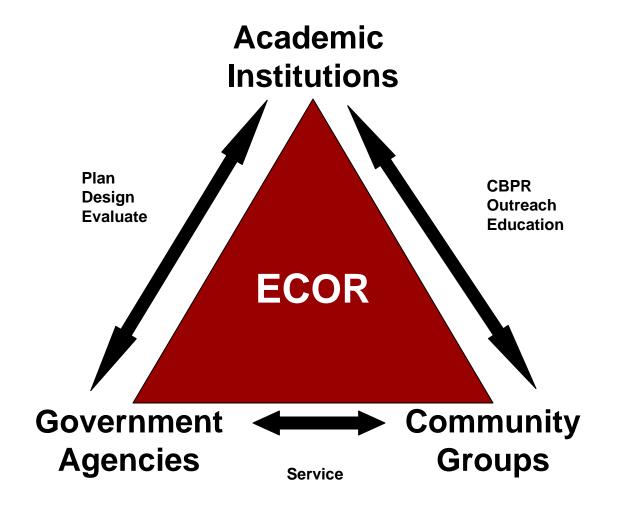
UW Exploratory Center for Obesity Research



Basic Research to Policy – and Back



Integration: Bench to Bedside—and Beyond





UW Research Setting

Biomedical

UW School of Medicine

Harborview Medical Center

Fred Hutchinson Cancer Research Center

> VA Puget Sound

School of Dentistry

School of Nursing

School of Pharmacy

UW Public Health

School of Public Health & Community Medicine

Center for Public Health Nutrition

Health Promotion Research Center

Northwest Center For Public Health Practice

Center for
Excellence in Public
Health Informatics

Other Academia

College of Architecture and Urban Planning

Evans School of Public Affairs

Department of Geography

College of Engineering

Department of Psychology

College of Education

Government Agencies

Washington State Department of Health

Public Health Seattle & King County

Office of Superintendent of Public Instruction

Washington State Board of Health

Seattle Public Schools

Community Organizations

Group Health Cooperative

Washington Coalition For Promoting Physical Activity

Child Health Institute

Feet First Seattle

Austin Foundation

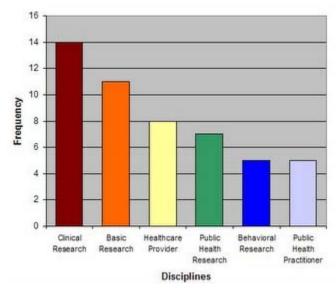
Odessa Brown Medical Clinic

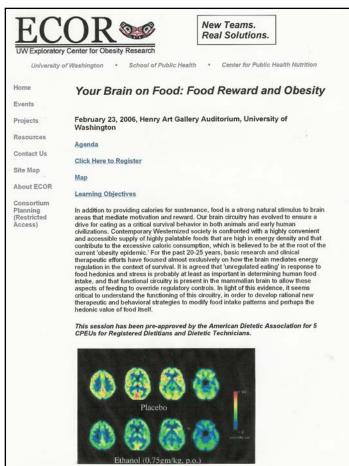
Community groups



How to establish shared goals and common language

- Methods workshops
- Symposia
- Seminars
- Strategic planning meetings
- Website
- PF grants

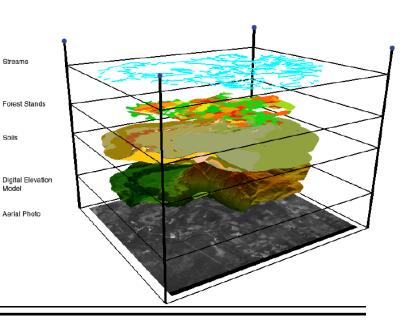






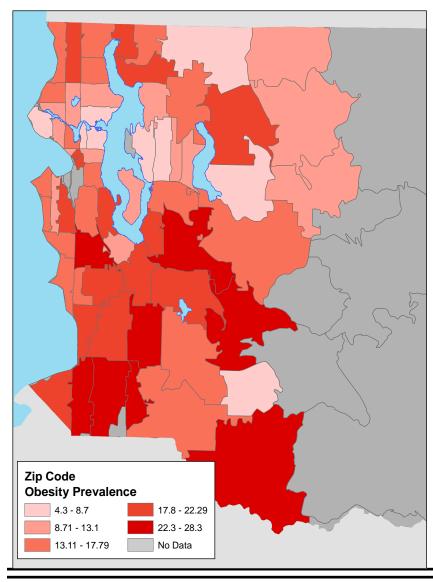
Building and Sharing Methodologies

- Workshops
 - Mobile sensors Wi-Fi technology
 - Computer Science, Intel, Urban Form Lab
 - GIS and the geography of obesity
 - Architecture, Geography, Epidemiology, PH-S&KC
 - Measuring dietary intake of children
 - USDA Beltsville, USDA Baylor, CDC,
 - Policy development processes
 - Evans School of Public Affairs
- Identify Research Interfaces
 - □ GIS as metaphor ■





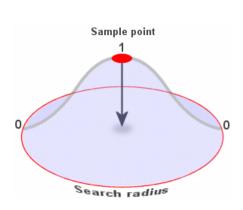
Mapping obesity rates by Zip Code Area



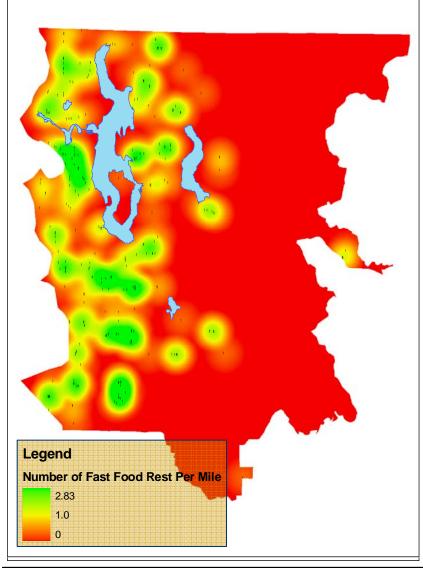
Data from BRFSS analyzed by EPE Unit of PH-S&KC



Mapping access to foods – data from UFL





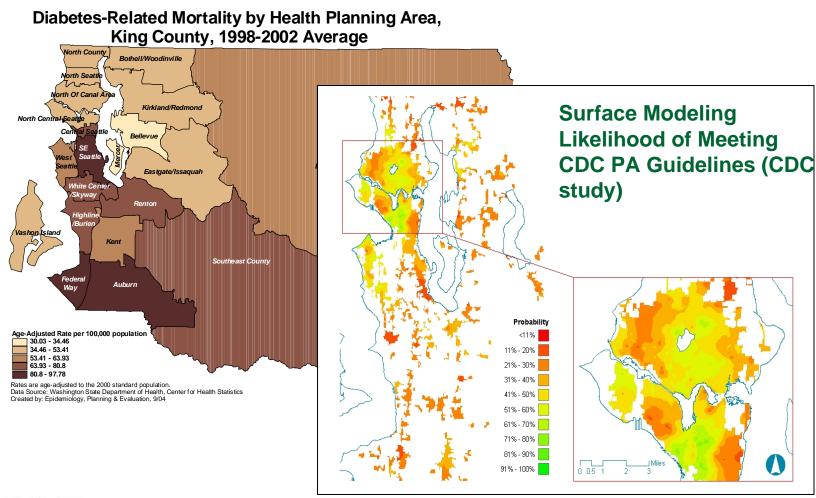








Mashup with public health surveillance data and surface modeling of walkability





Symposium – Metabolic Imprinting: Maternal Effects on Subsequent "Diabesity" Risk

Epidemiologic Evidence for Epigenetic Transmission of Diabesity

The Dutch Hunger Winter and Beyond

D. Scott Weigle, M.D. ECOR Special Symposium November 17, 2005 Genetic and Perinatal Factors
Which Promote Obesity and
Metabolic Disease

Barry E. Levin, MD NJ Medical School/ UMDNJ VA Medical Center, E. Orange, NJ USA

Neonatal Nutrition and Adult Obesity

Daniel L. Marks M.D.,Ph.D.

Pediatric Endocrinology Doernbecher Children's Hospital

Center for the Study of Weight Regulation Oregon Health Sciences University



ECOR symposium, Univ. of Washington, Nov. 17^{th} , 2005

Molecular mechanisms of genetic imprinting and epigenetic transmission of traits: The model of Prader-Willi syndrome

Robert D. Nicholls, D.Phil. robert.nicholls@chp.edu

Director, Birth Defects Laboratories Department of Pediatrics, Div. of Medical Genetics Children's Hospital of Pittsburgh Pittsburgh, PA



ECOR

November 17, 2005

Maxine Hayes, MD, MPH

State Health Officer

Washington State Department of Health



Symposium – February 23, 2006 Your Brain on Food: Food Reward and Obesity

Learning Objectives:

- Identify critical brain areas for regulation of energy balance and the preference for sweet taste.
- Identify brain mechanisms that underlie the enhancement of psychostimulant reward
- Review evidence demonstrating effects of nutritional status on brain reward function
- Identify elements of patterns of human brain activation with eating and drug-taking.

Speakers

Allen S. Levine, PhD (University of Minnesota)

Sugars: hedonic aspects, neuroregulation, and energy balance

Kenneth D. Carr, PhD (New York University)

Food restriction: enhancing effects on drug reward and striatal cell signaling

Dianne Figlewicz Lattemann, PhD (UW)

Food reward and modulation by nutritional status, insulin, and leptin

Gene-Jack Wang, MD (Brookhaven National Lab)

Human brain imaging: parallels between feeding and drug taking and implications for obesity

Sue Coldwell, PhD (UW)

Developmental and physiological influences on taste preference and perception in human adolescents

Elissa Epel, PhD (UCSF)

Stress-induced eating in contemporary society: neuroendocrine responses, mood, and taste preferences

David Kessler, MD (UCSF)

What tobacco has taught us about strategies for obesity prevention



Seminar Series

Obesity Prevention: Research to Policy

Learning Objectives:

- Apply terminology related to the study of obesity prevention in the U.S.
- Describe basic, clinical, and public health approaches to obesity-related research.
- Discuss approaches and barriers to obesity prevention among various groups in the U.S.
- Evaluate the scientific literature related to the broad area of obesity prevention.
- Understand concepts related to the multi-faceted nature of the obesity epidemic in the U.S.

Speakers

John Brunzell, MD

Recidivism after weight loss

Karen Foster-Schubert, MD

Ghrelin and the regulation of body weight and glucose homeostasis

Lenna Liu, MD, MPH

On the front line: obesity in minority youth

Deb Bowen, PhD

Community interventions for obesity

Phil Hurvitz, MFR

Spatial epidemiology and obesity risk

Dimitri Christakis, MD

Screen time and poor eating habits in children

Scott Weigle, MD

Human diet studies on body weight regulation

Jan Norman, RD, CDE

Using environment and policy approaches to address obesity

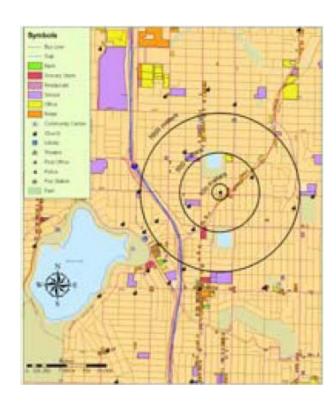
Laura Streichert, PhD, MPH

Transdisciplinary strategies for obesity research



Pilot and Feasibility Studies

- 6 projects awarded (\$15,000-\$20,000 each).
- Majority of Pls are clinicianscientists.
- New interdisciplinary teams.
- Training for young investigators in interdisciplinary research.





Translating to Practice and Policy

- King County Obesity Prevention Initiative Forums
- Work groups identified priority public health needs and created strategies
 - Nutrition
 - Physical Activity
 - Built Environment
 - Media







King County 10-Point Plan for Obesity Prevention

Communications

 Carry out a community-wide campaign to promote healthy eating and active living, including messages designed to motivate families to reduce individuals' and children's TV and screen time.

Nutrition and physical activity

- 2. Assist school districts' development and implementation of nutrition and physical activity policies.
- 3. Enhance employers' efforts to promote nutrition and physical activity through work site wellness programs, starting with school and King County employees as model worksites.

Nutrition

- 4. Encourage breastfeeding friendly policies at worksites and child care facilities.
- 5. Support the adoption of guidelines, best practices and policies that promote nutrition standards, appropriate portion sizes and healthy food choices.

Physical activity

- 6. Support the implementation of "Safe and active routes to schools and transit" programs.
- 7. Support greater use of private and public facilities for physical activity, starting with community and senior centers and schools.

Design for active living

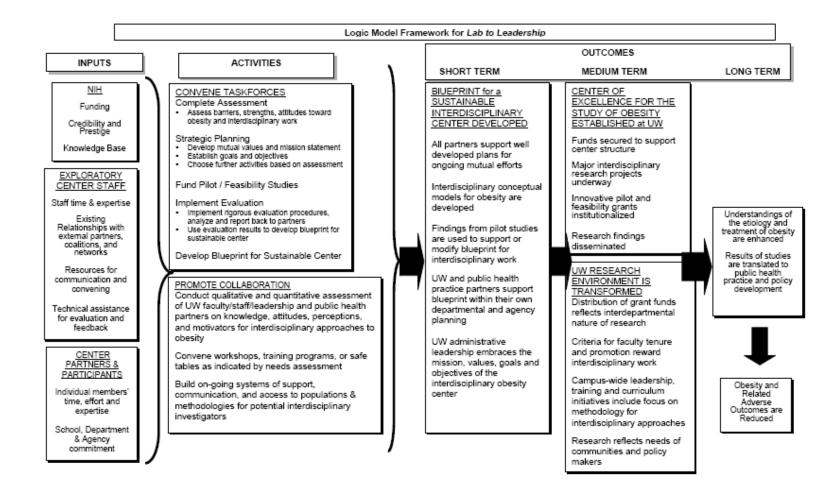
- 8. Support the completion of missing pedestrian and bicycle links in King County.
- 9. Promote the development and use of checklists on standards of active community design.

Research

10. Partner with academia and our communities to promote evidence-based practices and evaluate and disseminate results regularly and rapidly.



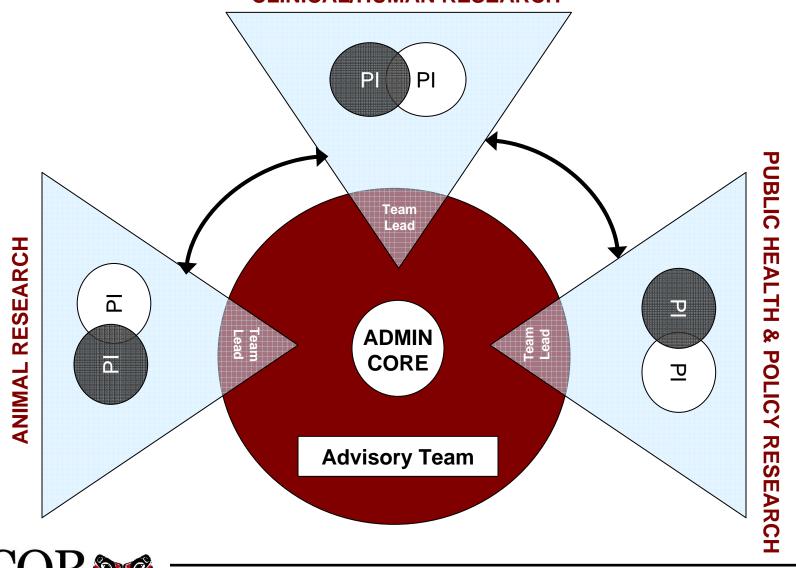
Logic Model and Self-Evaluation





Planned UW Consortium for Obesity Research

CLINICAL/HUMAN RESEARCH





Strategic Plan for UNIVERSITY of WASHINGTON OBESITY RESEARCH

ECOR

UW Exploratory Center for Obesity Research

New teams. Real solutions.

